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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/890,638	08/03/2001	. Alain Lebrun	025219-339	5222	
759	*				
Burns Doane Swecker & Mathis 1737 King Street #400			EXAMINER		
Alexandria, VA 22314-2727			HANNAHER, CONSTANTINE		
•	•		ART UNIT	PAPER NUMBER	
			2878		
		DATE MAILED: 04/22/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	111		
		09/890,638	LEBRUN ET AL.	ll		
	Office Action Summary	Examiner	Art Unit			
		Constantine Hannaher	2878			
Period fo	The MAILING DATE of this communication app or Reply			dress		
A SHOTHE III	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or te to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).			
1)🖂	Responsive to communication(s) filed on 03 /	<u> August 2001</u> .				
2a) <u></u>	This action is FINAL . 2b)⊠ Th	is action is non-final.				
3) Dispositi	Since this application is in condition for allowationsed in accordance with the practice under on of Claims			e merits is		
4)🖂	Claim(s) <u>1-3</u> is/are pending in the application.					
•	4a) Of the above claim(s) is/are withdraw	vn from consideration.				
5) 🗌	Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1</u> is/are rejected.					
7)🖂	Claim(s) <u>2 and 3</u> is/are objected to.					
	Claim(s) are subject to restriction and/or papers	r election requirement.				
9)□ 1	he specification is objected to by the Examine	r.				
<u> </u>	he drawing(s) filed on <u>21 August 2001</u> is/are:		the Examiner.			
	Applicant may not request that any objection to the					
11)∐ T	he proposed drawing correction filed on	is: a) ☐ approved b) ☐ disappro	ved by the Examine	er.		
	If approved, corrected drawings are required in rep		•			
12) 🗌 T	he oath or declaration is objected to by the Exa	aminer.				
Priority u	nder 35 U.S.C. §§ 119 and 120					
13)🛛	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).			
	☑ All b) ☐ Some * c) ☐ None of:		, , , , ,			
•	1. Certified copies of the priority documents	have been received.				
:	2. Certified copies of the priority documents		on No			
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
	ee the attached detailed Office action for a list o	· ·				
	cknowledgment is made of a claim for domestic		·	application).		
	The translation of the foreign language proveknowledgment is made of a claim for domestic					
Attachment(
2) Notice 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>6</u> .		(PTO-413) Paper No(s atent Application (PTO			
S. Patent and Trace PTO-326 (Rev.		ion Summary	Part of	Paper No. 7		

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DETAILED ACTION

Oath/Declaration

1. When applicant states that the post office address is the "same" as residence applicant's representative should keep in mind that a "residence" is a city and state or foreign country. The superfluous information given for residence is accepted as constituting a mailing address. The Office has *not* been able to discern the city and state or foreign country of residence from the information supplied. See the requirements of 37 CFR 1.63(c)(1) as amended effective November 7, 2000.

2. A declaration is an application paper, 37 CFR 1.52(b). 37 CFR 1.52(a)(1)(iv) requires all application papers to be legibly written either by a typewriter or machine printer. The reasons the Office amended 37 CFR 1.52(a) to include this requirement are directly applicable to the identification required by 37 CFR 1.63(a)(2) and 37 CFR 1.63(a)(3). The Office seeks sufficient clarity and contrast between the paper and the writing thereon to permit electronic reproduction by use of digital imaging and optical character recognition. Applications containing hand-written papers create an inordinate administrative burden on the Office during the initial processing, examination, and publishing of the application as a patent. Therefore, the Office no longer permits applicants to submit application papers that do not meet the standards set forth in the rules. See 61 Federal Register 161 of 19 August 1996, page 42793.

Drawings

3. The corrected or substitute drawings were received on August 21, 2001. These drawings are acceptable.

Claim Objections

4. Claims 1-3 are objected to because of the following informalities: the use in line 7 (actual count) of claim 1 of "the absorbent enclosure" will be treated as if it referred to the "absorbing

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enclosure" of line 2 (actual count). Appropriate correction is required. The balance of the claims is objected to on the basis of their dependence.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 7. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Xu et al. (US006518579B1) in view of Goto (JP 62-80579-A) and Boxen (US006353227B1).

With respect to independent claim 1, Xu et al. discloses (Fig. 1) a radiation detector comprising a counter 10 and an absorbing enclosure 16 surrounding the counter 10 except for the collimation slit 18 leading to the counter 10. However, Xu et al. does not disclose any adjustment of the width of the collimation slit 18. Nevertheless, Goto discloses that a radiation detector (Fig. 1) comprising a counter 11 may benefit from a collimator 12 with a variable slit width determined on the basis of the gamma ray transmissivity (that is, on the basis of the counter signal current) to

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correct an error in measurement. In view of the error reduction afforded by the variable width of the collimation slit suggested by Goto, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the radiation detector of Xu et al. to have a collimation slit 18 width which may be increased or reduced on the basis of the signal current from counter 10. The collimation slit suggested by Goto is characterized by a motor (inherent in the presence of the gear in Fig. 3) and a transmission (the L-shaped bracket) connecting the motor to a mobile portion 13 of the absorbent enclosure forming collimator 12, partially delimiting the collimation slit, to move the mobile portion 13 to increase or reduce the width of the collimation slit depending on the activity of the motor. To retain the absorbent structure 16 of Xu et al. to the extent possible when incorporating the variable collimation slit suggested by Goto, it would have been obvious to one of ordinary skill in the art at the time the invention was made to place the motor suggested by Goto on the side of the detector 10 opposite the collimation slit 18 and have the transmission extend through the absorbent enclosure 16. The movement of a collimator element with a servocontrolled motor is routine in the art of radiation detectors, as shown by element 18 of Boxen (column 4, lines 61-65)

Response to Submission(s)

- 8. The amendment filed August 3, 2001 has been entered.
- 9. This application has been published as US2002/0125429A1 (with the wrong drawings) on September 12, 2002.

Allowable Subject Matter

10. Claims 2 and 3 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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11. The following is a statement of reasons for the indication of allowable subject matter: Xu et al. and Goto cannot suggest the particular axis of articulation or the drilling.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Constantine Hannaher whose telephone number is (703) 308-4850. The examiner can normally be reached on Monday-Friday with flexible hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David P. Porta can be reached on (703) 308-4852. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

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April 18, 2003

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